TECHNICAL NOTES

LAKE STATES FOREST EXPERIMENT STATION
U.S. DEPARTMENT OF AGRICULTURE · · FOREST SERVICE

No. 468

Short Cuts in Scaling--
Converting Stacked Cordwood to Board-Feet[1/]

A fairly good estimate of board-foot scale can be obtained from a direct count of stacked 8-foot bolts, provided that bolts not less than 6 inches in diameter at the small end are included in the pile. All that is necessary is to measure the length and height of the pile, obtain the number of sticks per standard cord, and find in the table presented below the corresponding board-foot scale per cord. This method will work best for bolts larger than 10 inches in diameter and when piles include bolts of different diameters because of the irregularities inherent in most common log rules. All figures indicate gross scale; deductions for defect must be applied when needed.

Number of 8-foot bolts per standard cord	Number of board-feet (International ¼-inch Rule) per standard cord when piling is:				Conversion factor to obtain Scribner Dec. C scale (Percent)
	Very loose--38 percent void space	Loose--34 percent void space	Close--30 percent void space	Very close-26 percent void space	
4	490	530	570	615	100
6	470	510	550	595	97
8	445	490	530	570	91
10	425	470	510	550	88
12	405	445	490	525	88
14	390	425	465	505	88
16	370	410	450	490	88
18	355	400	435	470	92
20	335	380	415	455	92
25	300	335	370	410	89
30	295	315	345	380	81
35	350	355	360	370	72
40	390	390	390	390	62
45	450	450	450	450	50

1/ A revision of Technical Note 182.

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